Contents of volume 77

No. 1–2: pp 1–194 published January 1998
No. 3: pp 195–296 published February 1998
No. 4: pp 297–394 published March 1998
No. 5: pp 395–478 published April 1998
No. 5: pp 479–564 published May 1998

Abe D, Yanagawa K, Yamanobe K, Tamura K: Assessment of middle-distance running performance in sub-elite young runners using energy cost of running 320
Aguilaniu B, Flore P, Page E, Maitre J, Lacour JR, Perrault H: Effects of indomethacin polyunsaturated fatty acid diet on exercise-induced hypoxaemia in master athletes 81
Aihara Y → Kita I
Aminoff T → Smolander J
Andersson J, Schagatay E: Effects of lung volume and involuntary breathing movements on the human diving response 19
Angelopoulos TJ, Lewis R, Jamurtas T, Schumann C: Significant changes in VLDL-Triacylglycerol and glucose tolerance in obese objects following ten days of training 556
Arendt-Nielsen L → Madeleine P
Arita H → Kita I
Armstrong LE → Castellani JW
Armstrong LE → Deschenes MR
Arsac LM → Bonnefoy M
Ashton T, Rowlands CC, Jones E, Young IS, Jackson SK, Davies B, Peters JR: Electron spin resonance spectroscopic detection of oxygen-centred radicals in human serum following exhaustive exercise 498

Bale P → Williams CA
Barbier B → Candau R
Bauer U → Habedank D
Bayón JE → Villa JG
Bell DG, Jacobs I, Zamecnik J: Effects of caffeine, ephedrine and their combination on time to exhaustion during high-intensity exerc 427
Belli A → Candau R
Belli A → Dalleau G
Benschop RJ → Oberbeck R
Bernard T → Gavarry O
Bernard T, Giacomoni M, Gavarry O, Seymat M, Falgairette G: Time-of-day effects in maximal anaerobic leg exercise 133
Berthouze S → Chatard J-C
Berthouze SE → Bonnefoy M
Berwick JP → Schneider DA
Besnard Y → Savourey G
Biancardi L → Perini R
Bittel J → Savourey G
Bittel J → Savourey G
Bjermer L → Sandsund M
Blannin AK → Gleeson M
Blannin AK → Gleeson M
Blannin AK → Walsh NP
Blanquie J-P → Florence G
Bonnefoy M, Kostka T, Arsac LM, Berthouze SE, Lacour J-R: Peak anaerobic power in elderly men 182
Bonnier R → Florence G
Bourdin M → Dalleau G
Bourgois J, Vrijens J: Metabolic and cardiorespiratory responses in young oarsmen during prolonged exercise tests on a rewing ergometer at power outputs corresponding to two concepts of anaerobic threshold 164
Bourron F → Florence G
Boussana A → Hue O
Boutet C → Chatard J-C
Brittingham KT → Deschenes MR
Butterfield GE → Grover RF

Calder AW → Chilibeck PD
Calvo M → Rodas G
Campbell WW → Kraemer WJ
Candau R, Belli A, Millet GY, Georges G, Barbier B, Rouillon JD: Energy cost and running mechanics during a treadmill runto voluntary exhaustion in humans 479
Canon F, Goubel F, Guezennec CY: Effects of chronic low frequency stimulation on contractile and elastic properties of hindlimb suspended rat soleus muscle 118
Caravel JP → Savourey G
Casa DJ → Deschenes MR
Castellani JW, Maresh CM, Armstrong LE, Kenefick RW, Riebe D, Echegaray M, Kavouras S, Castracane VD: Endocrine responses during exercise-heat stress: effects of prior isotonic and hypotonic intravenous rehydration 242
Castracane VD → Castellani JW
Caterini R → Savourey G
Charbonné R → Florence G
Chatard J-C, Boutet C, Tourny C, Garcia S, Berthouze S, Guézennec C-Y: Nutritional status and physical fitness of elderly sportsmen 157
Cheung SS, McLellan TM: Influence of hydration status and fluid replacement on heat tolerance while wearing NBC protective clothing 139
Chilibeck PD, Calder AW, Sale DG, Webber CE: A comparison of strength and muscle mass increases during resistance training in young women 170
Chmura J, Krysztofiak H, Ziemba AW, Nazar K, Kaciuba-Uścilko H: Psychomotor performance during prolonged exercise above and below the blood lactate threshold 77
Chollet D → Hue O
Christova P, Kossev A: Motor unit activity during long-lasting intermittent muscle contractions in humans 379
Chu MS → Sandsund M
Claridge S → Mercer TH
Clark AM → Walsh NP
Clement S → Mercer TH
Coenen JML → Havenith G
Cook L → Gleeson M
Cook L → Walsh NP
Crenshaw AG, Wiger P, Styf J: Evaluation of techniques for measuring negative intramuscular pressures in humans 44
Cuadrado G → Villa JG

Dahms TE → Grover RF
Dalleau G, Belli A, Bourdin M, Lacour J-R: The spring-mass model and the energy cost of treadmill running 257
Davies B → Ashton T
Day SH → Gleeson M
Deschenes MR, Sharma JV, Brittingham KT, Casa DJ, Armstrong LE, Maresh CM: Chronobiological effects on exercise performance and selected physiological responses 249
Desert S → Florence G
Donnelly AE → Gleeson M
Doust JH → James DVB
Duché P → Filaire E
Duda K → Zoladz JA
Duncan ND, Williams DA, Lynch GS: Adaptations in rat skeletal muscle following long-term resistance exercise training 372

Earnest CP → Smith JC
Echegaray M → Castellani JW
Ercilla G → Rodas G
Erkintalo M → Peltonen JE
Euzet JP → Gavarry O
Evans WJ → Kraemer WJ

Falgairette G → Bernard T
Falgairette G → Gavarry O
Farrell PA → Kraemer WJ
Field CNE → Gleeson M
Filaire E, Duché P, Lac G: Effects of training for two ball games on the saliva response of adrenocortical hormones to exercise in elite sportswomen 452
Finni T, Komi PV, Lukkariniemi J: Achilles tendon loading during walking: application of a novel optic fiber technique 289

Fleck SJ → Kraemer WJ
Flore P → Aguilaniu B
Florence G, Lemenn M, Desert S, Bourron F, Serra A, Bonnier R, Blanquie J-P, Charbonné R, Seylaz J: Cerebral cortical blood flow in rabbits during parbolic flights (hypergravity and microgravity) 469
Fogh-Andersen N → Poulsen TD
Fortrat JO → Traon AP-L
Fourment A → Petitjean M
Fujisaki I → Nakazawa K
Fukunaga T → Kanehisa H
Fukunaga T → Shinohara M

Galbo H → Kappel M
Gallais DL → Hue O
Garcia N → Savourey G
Garcia S → Chatard J-C
Garrido AEE → Rodas G
Gauquelin-Koch G → Traon AP-L
Gavarry O → Bernard T
Gavarry O, Bernard T, Giacomoni M, Seymat M, Euzet JP, Falgairette G: Continuous heart rate monitoring over 1 week in teenagers aged 11–16 years 125
Georges G → Candau R
Gharib C → Savourey G
Gharib C → Traon AP-L
Giacomoni M → Bernard T
Giacomoni M → Gavarry O
Gläser S → Habedank D
Gleeson M → Walsh NP
Gleeson M, Blannin AK, Walsh NP, Field CNE, Pritchard JC: Effect of exercise-induced muscle damage on the blood lactate response to incremental exercise in humans 292
Gleeson M, Walsh NP, Blannin AK, Robson PJ, Cook L, Donnelly AE, Day SH: The effect of severe eccentric exercise-induced muscle damage on plasma elastase, glutamine and zinc concentrations 543
Gleeson NP → Mercer TH
Gollhofer A, Schöpp A, Rapp W, Stroinik V: Changes in reflex excitability following isometric contraction in humans 89
González-Gallego J → Villa JG
Gordon SE → Kraemer WJ
Gotshalk LA → Kraemer WJ
Goubel F → Canon F
Greenhaff PL → Weller AS
Greenleaf JE → Grover RF
Grover RF, Selland MA, McCullough RG, Dahms TE, Wolfel EE, Butterfield GE, Reeves JT, Greenleaf JE: β-Adrenergic blockade does not prevent polycythemia or decrease in plasma volume in men at 4300 m altitude 264
Guézennec C-Y → Chatard J-C
Guezennec CY → Canon F
Guinet A → Savourey G

Häkkinen K → Kraemer WJ
Häkkinen K → Linnamo V
Häkkinen K, Pakarinen A, Newton RU, Kraemer WJ: Acute hormone responses to heavy resistance lower and upper extremity exercise in young versus old man 312
Habedank D, Reindl I, Vietzke G, Bauer U, Sperfeld A, Gläser S, Wernecke KD, Kleber FX: Ventilatory efficiency and exercise tolerance in 101 healthy volunte 421
Hagberg M → Shimaoka M
Hall EL → Smith JC
Hall J, Macdonald IA, Maddison PJ, O'Hare JP: Cardiorespiratory responses to underwater treadmill walking in healthy females 278
Hanniquet A-M → Savourey G
Hansen MB → Kappel M
Harada T → Yamauchi T
Havenith G → Heus R
Havenith G, Coenen JML, Kistemaker L, Kenney WL: Relevance of individual characteristics for human heat stress response is dependent on exercise intensity and climate type 231
Hayot M → Mucci P
Helgerud J → Sandsund M
Heus R, Wertheim AH, Havenith G: Human energy expenditure when walking on a moving platform 388
Hiruta S → Shimaoka M
Hjelm EW → Shimaoka M
Hollmann W → Strüder HK
Hori S → Koyama K
Hue O, Gallais DL, Chollet D, Boussana A, Préfaut C: The influence of prior cycling on biomechanical and cardiorespiratory response profiles during running in triathletes 98
Hughson RL → Traon AP-L
Huijing PA → Zuurbier CJ

Ikegawa S → Kanehisa H

Jackson AW → Smith JC
Jackson SK → Ashton T
Jacobs I → Bell DG
Jacobs R → Oberbeck R
James DVB, Doust JH: Oxygen uptake during moderate intensity running: response following a single bout of interval training 551
Jamurtas T → Angelopoulos TJ
Jansson E → Viru M
Jaric S → Ropret R
Jensen J-EB → Madsen OR
Jones E → Ashton T

Kaciuba-Uścilko H → Chmura J
Kanehisa H, Kondo M, Ikegawa S, Fukunaga T: Body composition and isokinetic strength of professional Sumo wrestlers 352
Kanstrup I-L → Poulsen TD
Kappel M, Poulsen TD, Hansen MB, Galbo H, Pedersen BK: Somatostatin attenuates the hyperthermia induced increase in neutrophil concentration 149
Karelson K → Viru A
Kavouras S → Castellani JW
Kawakami Y, Sale DG, MacDougall JD, Moroz JS: Bilateral deficit in plantar flexion: relation to knee joint position, muscle activation, and reflex excitability 212
Kaya M → Koyama K
Kenefick RW → Castellani JW
Kenney WL → Havenith G
Kistemaker L → Havenith G
Kita I, Sakamoto M, Ryushi T, Aihara Y, Arita H: Dynamics of human cardiorespiratory responses to standing on one leg with eyes closed 60
Kjær M: Adrenal medulla and exercise training 195
Klausen T → Poulsen TD
Kleber FX → Habedank D
Komi PV → Pullinen T
Komi PV → Finni T
Komi PV → Linnamo V
Kondo M → Kanehisa H
Korhonen I → Smolander J
Korhonen O → Smolander J
Kossev A → Christova P
Kostka T → Bonnefoy M
Kouzaki M → Shinohara M
Koyama K, Kaya M, Tsujita J, Hori S: Effects of decreased plasma glutamine concentrations on peripheral lymphocyte proliferation in rats 25
Kraemer WJ → Häkkinen K
Kraemer WJ, Häkkinen K, Newton RU, McCormick M, Nindl BC, Volek JS, Gotshalk LA, Fleck SJ, Campbell WW, Gordon SE, Farrell PA, Evans WJ: Acute hormonal responses to heavy resistance exercise in younger and older man 206
Krysztofiak H → Chmura J
Kujala UM → Peltonen JE
Kukolj M → Ropret R
Kurono M → Yamauchi T

Léger LA → Tokmakidis SP
Laaneots L → Viru A
Lac G → Filaire E
Lacour J-R → Bonnefoy M
Lacour J-R → Dalleau G
Lacour JR → Aguilaniu B
Launay J-C → Savourey G
Lee-de Groot MBE → Zuurbier CJ
Lemenn M → Florence G
Lewis R → Angelopoulos TJ
Lexell J → Ratkeviius A
Linnamo V, Häkkinen K, Komi PV: Neuromuscular fatigue and recovery in maximal compared to explosive strength loading 176
Louhevaara V → Smolander J
Lukkariniemi J → Finni T
Lynch GS → Duncan ND

MacDonald E → Pullinen T
Macdonald IA → Hall J
Macdonald IA → Weller AS
MacDougall JD → Kawakami Y
Maddison PJ → Hall J

Madeleine P, Voigt M, Arendt-Nielsen L: Subjective, physiological and biomechanical responses to prolonged manual work performed standing on hard and soft surfaces 1
Madsen OR, Jensen J-EB, Sørensen OH: Validation of a dual energy X-ray absorptimeter: measurement of bone mass and soft tissue composition (Erratum) 192
Maillet A → Traon AP-L
Maitre J → Aguilaniu B
Majerczak J → Zoladz JA
Maresh CM → Castellani JW
Maresh CM → Deschenes MR
Martin S → Savourey G
Matavulj DUD → Ropret R
Maton B → Petitjean M
Matsui N → Yamauchi T
McCormick M → Kraemer WJ
McCullough RG → Grover RF
McLellan TM → Cheung SS
Mello RP → Nindl BC
Mercer TH, Gleeson NP, Claridge S, Clement S: Prolonged intermittent high intensity exercise impairs neuromuscular performance of the knee flexors 560
Mero A → Pullinen T
Milesi S → Perini R
Millard CE → Weller AS
Millet GY → Candau R
Miyamoto Y → Takahashi T
Montgomery DL → Zavorsky GS
Moroz JS → Kawakami Y
Mucci P, Prioux J, Hayot M, Ramonatxo M, Préfaut C: Ventilation response to CO_2 and exercise-induced hypoxaemia in master athletes 343
Murphy MM → Nindl BC

Nakazawa K, Yano H, Satoh H, Fujisaki I: Differences in stretch reflex responses of elbow flexor muscles during shortening, lengthening and isometric contracti 395
Nazar K → Chmura J
Newton RU → Häkkinen K
Newton RU → Kraemer WJ
Nindl BC → Kraemer WJ
Nindl BC, Sharp MA, Mello RP, Rice VJ, Murphy MM, Patton JF: Gender comparison of peak oxygen uptake: repetitive box lifting versus treadmill running 112
Nonaka H → Shimaoka M

O'Hare JP → Hall J
Oberbeck R, Schürmeyer Th, Jacobs R, Benschop RJ, Sommer B, Schmidt RE, Schedlowski M: Effects of β-adrenoceptor-blockade on stress-induced adrenocorticotrophin release in humans 523
Oksanen A → Peltonen JE
Olds T: The mathematics of breaking away and chasing in cycling 492
Olsen NV → Poulsen TD
Ono Y → Shimaoka M

Page E → Aguilaniu B
Pakarinen A → Häkkinen K
Pakarinen A → Pullinen T
Patton JF → Nindl BC
Pearsall DJ → Zavorsky GS
Pedersen BK → Kappel M
Peltonen JE, Taimela S, Erkintalo M, Salminen JJ, Oksanen A, Kujala UM: Back extensor and psoas muscle cross-sectional area, prior physical training, and trunk muscle strength – a longitudinal study in adolescent girls 66
Pendergast DP → Perini R
Perini R, Milesi S, Biancardi L, Pendergast DP, Veicsteinas A: Heart rate variability in exercising humans: effect of water immersion 326
Perrault H → Aguilaniu B
Peters JR → Ashton T
Petitjean M, Maton B, Fourment A: Summation of elementary phonomyograms during isometric twitches in humans 527
Pilianidis TC → Tokmakidis SP
Platen P → Strüder HK
Poulsen TD → Kappel M
Poulsen TD, Klausen T, Richalet J-P, Kanstrup I-L, Fogh-Andersen N, Olsen NV: Plasma volume in acute hypoxia comparison of a carbon monoxide rebreathing method and dye dilution with Evans' blue 457
Pouzeratte N → Savourey G
Povilonis E → Ratkeviius A
Préfaut C → Hue O
Préfaut C → Mucci P
Prioux J → Mucci P
Pritchard JC → Gleeson M
Pullinen T, Mero A, MacDonald E, Pakarinen A, Komi PV: Plasma catecholamine and serum testosterone responses to four units of resistance exercise in young and adult male athle 413

Quistorff B → Ratkeviius A

Ramonatxo M → Mucci P
Rapp W → Gollhofer A
Ratkeviius A, Skurvydas A, Povilonis E, Quistorff B, Lexell J: Effects of contraction duration on low-frequency fatigue in voluntary and electrically induced exercise of quadriceps muscle in humans 462
Reeves JT → Grover RF
Reindl I → Habedank D
Reinertsen RE → Sandsund M
Rice VJ → Nindl BC
Richalet J-P → Poulsen TD
Riebe D → Castellani JW
Robson PJ → Gleeson M
Robson PJ → Walsh NP
Rodas G, Calvo M, Garrido AEE, Ercilla G, Segura AAR, Ventura JL: Heritability of running economy: a study made on twin brothers 511
Ropret R, Kukolj M, Matavulj DUD, Jaric S: Effects of arm and leg loading on sprint performance 547
Rost R → Strüder HK
Rouillon JD → Candau R
Rowlands CC → Ashton T
Ryushi T → Kita I

Sørensen OH → Madsen OR
Sakamoto M → Kita I
Sale DG → Chilibeck PD
Sale DG → Kawakami Y
Salminen JJ → Peltonen JE
Sandsund M, Chu MS, Helgerud J, Reinertsen RE, Bjermer L: Effect of cold exposure (−15°C) and Salbutamol treatment on physical performance in elite nonasthmatic cross-country skiers 297
Satoh H → Nakazawa K
Savourey G, Caterini R, Launay J-C, Guinet A, Besnard Y, Hanniquet A-M, Bittel J: Positive and expiratory pressure as a method for preventing acute mountain sickness 32
Savourey G, Garcia N, Caravel JP, Gharib C, Pouzeratte N, Martin S, Bittel J: Pre-adaptation, adaptation and de-adaptation to high altitude in humans: hormonal and biochemical changes at sea level 37
Schöpp A → Gollhofer A
Schürmeyer Th → Oberbeck R
Schagatay E → Andersson J
Schedlowski M → Oberbeck R
Schmidt RE → Oberbeck R
Schneider DA, Berwick JP: $\dot{V}_E$ and $\dot{V}CO_2$ remain tightly coupled during incremental cycling performed after a bout of high-intensity exercise 72
Schumann C → Angelopoulos TJ
Scott CB: Re-interpreting anaerobic metabolism: an argument for the application of both anaerobic glycolysis and excess post-exercise oxygen consumption (EPOC) as independent sources of energy expenditure 200
Segura AAR → Rodas G
Selland MA → Grover RF
Serra A → Florence G
Seylaz J → Florence G
Seymat M → Bernard T
Seymat M → Gavarry O
Sharma JV → Deschenes MR
Sharp MA → Nindl BC
Shen N → Smolander J
Shimaoka M, Hiruta S, Ono Y, Nonaka H, Hjelm EW, Hagberg M: A comparative study of physical work load in Japanese and Swedish nursery school teachers 10
Shinohara M, Kouzaki M, Yoshihisa T, Fukunaga T: Efficacy of tourniquet ischemia for strength training with low resistance 189
Sigaudo D → Traon AP-L
Skurvydas A → Ratkeviius A
Smirnova T → Viru A
Smith JC, Stephens DP, Hall EL, Jackson AW, Earnest CP: Effect of oral creatine ingestion on parameters of the work rate-time relationship and time to

exhaustion in high-intensity cycling 360
Smolander J, Aminoff T, Korhonen I, Tervo M, Shen N, Korhonen O, Louhevaara V: Heart rate and blood pressure responses to isometric exercise in young and older 439
Sommer B → Oberbeck R
Sperfeld A → Habedank D
Sproule J: Running economy deteriorates following 60 min of exercise at 80% $\dot{V}O_{2max}$ 366
Sproule J: The influence of either no fluid or carbohydrate-electrolyte fluid ingestion and the environment (thermoneutral versus hot and humid) on running economy after prolonged, high-intensity exercise 536
Stephens DP → Smith JC
Strüder HK, Hollmann W, Platen P, Rost R, Weicker H, Weber K: Hypothalamic-pituitary-adrenal and -gonadal axis function after exercise in sedentary and endurance trained elderly males 285
Stroinik V → Gollhofer A
Styf J → Crenshaw AG
Sundberg AVCJ → Viru M

Taimela S → Peltonen JE
Takahashi T, Miyamoto Y: Influence of light physical activity on cardiac responses during recovery from exercise in humans 305
Tamura K → Abe D
Tervo M → Smolander J
Tokmakidis SP, Léger LA, Pilianidis TC: Failure to obtain a unique threshold on the blood lactate concentration curve during exercise 333
Tourny C → Chatard J-C
Traon AP-L, Sigaudo D, Vasseur P, Maillet A, Fortrat JO, Hughson RL, Gauquelin-Koch G, Gharib C: Cardiovascular responses to orthostatic tests after a 42-day head-down bed-rest 50
Tsujita J → Koyama K

Van der Laarse WJ → Zuurbier CJ
Vasseur P → Traon AP-L
Veicsteinas A → Perini R
Ventura JL → Rodas G
Vietzke G → Habedank D
Villa JG, Cuadrado G, Bayón JE, González-Gallego J: The effect of physical conditioning on antipyrine clearance 106
Viru A, Laaneots L, Karelson K, Smirnova T, Viru M: Exercise-induced hormone responses in girls at different stages of sexual maturat 401
Viru M → Viru A
Viru M, Jansson E, Sundberg AVCJ: Effect of restricted blood flow on exercise-induced hormone changes in healthy men 517
Voigt M → Madeleine P
Volek JS → Kraemer WJ
Vrijens J → Bourgois J

Walsh NP → Gleeson M
Walsh NP → Gleeson M
Walsh NP, Blannin AK, Clark AM, Cook L, Robson PJ, Gleeson M: The effects of high-intensity intermittent exercise on the plasma concentrations of glutamine and organic ac 434
Webber CE → Chilibeck PD
Weber K → Strüder HK
Webster MJ: Physiological and performance responses to supplementation with thiamin and pantothenic acid derivatives 486
Weicker H → Strüder HK
Weller AS, Millard CE, Greenhaff PL, Macdonald IA: The influence of cold stress and a 36- h fast on the physiological responses to prolonged intermittent walking in man 217
Wernecke KD → Habedank D
Wertheim AH → Heus R
Wiger P → Crenshaw AG
Williams CA, Bale P: Bias and limits of agreement between hydrodensitometry, bioelectrical impedance and skinfold caliper measures of percentage body fat 271
Williams DA → Duncan ND
Wolfel EE → Grover RF

Yamanobe K → Abe D
Yamauchi T, Harada T, Kurono M, Matsui N: Effect of exercise-induced acidosis on aldosterone secretion in 409
Yanagawa K → Abe D
Yano H → Nakazawa K
Yoshihisa T → Shinohara M
Young IS → Ashton T

Zamecnik J → Bell DG
Zavorsky GS, Montgomery DL, Pearsall DJ: Effect of intense interval workouts on running economy using three recovery durations 224
Ziemba AW → Chmura J
Zoladz JA, Duda K, Majerczak J: Oxygen uptake does not increase linearly at high power outputs during incremental exercise test in hum 445
Zuurbier CJ, Lee-de Groot MBE, Van der Laarse WJ, Huijing PA: Effects of in vivo-like activation frequency on the length-dependent force generation of skeletal muscle fibre bundles 503